PE Anti-Mouse CD105 Antibody[MJ7/18]

Catalog Number: E-AB-F1233UD

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

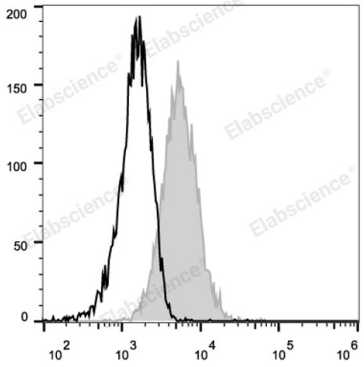
Description

Reactivity	Mouse
Host	Rat
Isotype	Rat IgG2a, κ
Clone No.	MJ7/18
Isotype Control	PE Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09833D]
Conjugation	PE
Conjugation Information	PE is designed to be excited by the Blue (488 nm), Green (532 nm) and Yellow-Green (561 nm) lasers and detected using an optical filter centered near 575 nm (e.g., a 585/42 nm bandpass filter).
Storage Buffer	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.

Applications — Recommended usage

FCM	Each lot of this antibody is quality control tested by flow cytometric analysis. Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. We suggest each investigator should titrate the reagent to obtain optimal results [The recommended concentration is 0.1-1 μg/10^6 cells in 100 μL volume].

Data



Mouse endothelial cells (bEnd.3) are stained with PE Anti-Mouse CD105 Antibody (filled gray histogram). PE Mouse IgG2a, κ Isotype Control stained cells are used as control.

Preparation & Storage

Storage	Keep as concentrated solution. This product can be stored at 2-8°C for 12 months. Please protected from prolonged exposure to light and do not freeze.
Shipping	Ice bag

Antigen Information

Alternate Names	END;Endoglin;Eng
Uniprot ID	Q63961
Gene ID	13805

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Background

CD105 is a 90 kD homodimeric type I integral membrane glycoprotein, also known as endoglin. It is expressed on endothelial cells (especially on angiogenic endothelial cells) and upregulated by hypoxia, activated monocytes, macrophages, bone marrow stromal cells, and some cytotrophoblasts. CD105 is a receptor for TGF-β1, TGF-β3 and modulates TGF-β signaling by interacting with TGF-β receptors I and/or II. CD105 also binds other growth factors such as actvin A, BMP-2, and BMP-7. CD105 has been show to be a useful marker for identifying proliferating endothelium involved in tumor angiogenesis and can be used for tumor imaging and prognosis, and has therapeutic potential for some solid tumors and other angiogenic diseases.

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